

Figure 1

10047084.011402

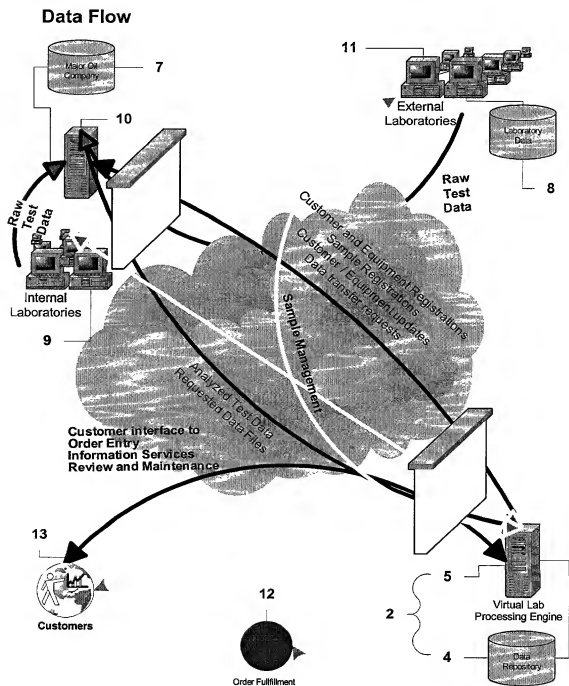


Figure 2

Business Process and Data Transfers (Commercial laboratory source point)

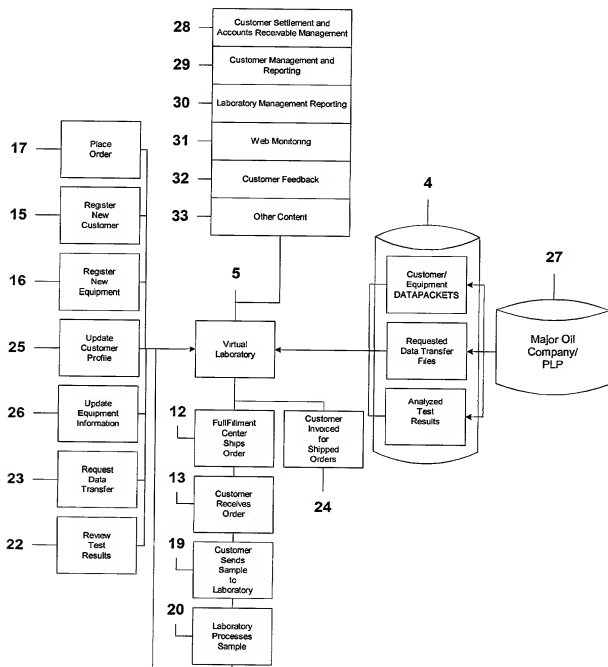


Figure 3

Figure 4

Physical Data Model	
Project : Virtual Laboratory	
Model : eTakLab	
Author : The TAK Group	Version 1 11/1/2001

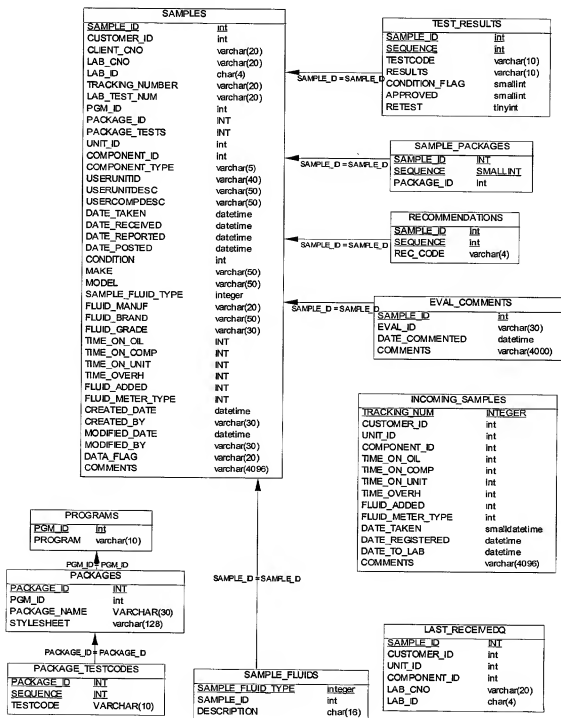


Figure 5A

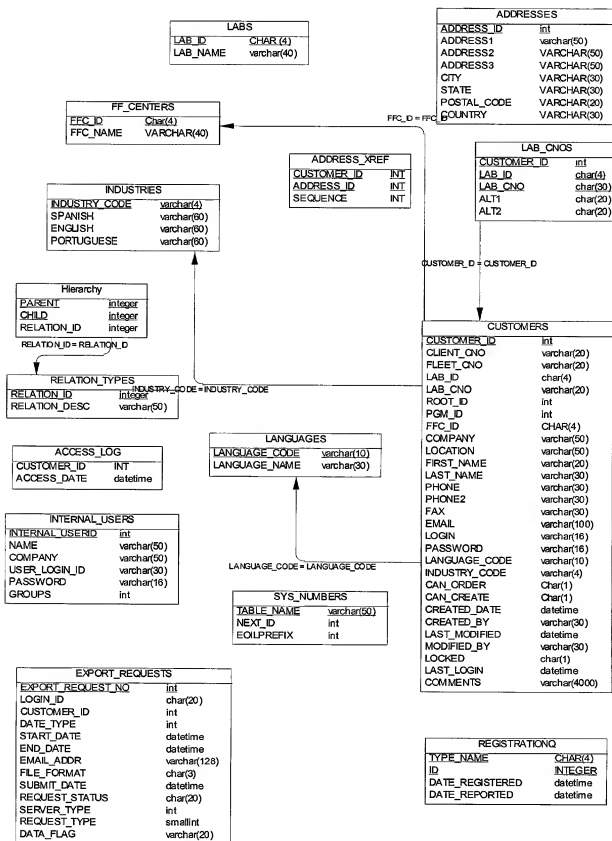


Figure 5B

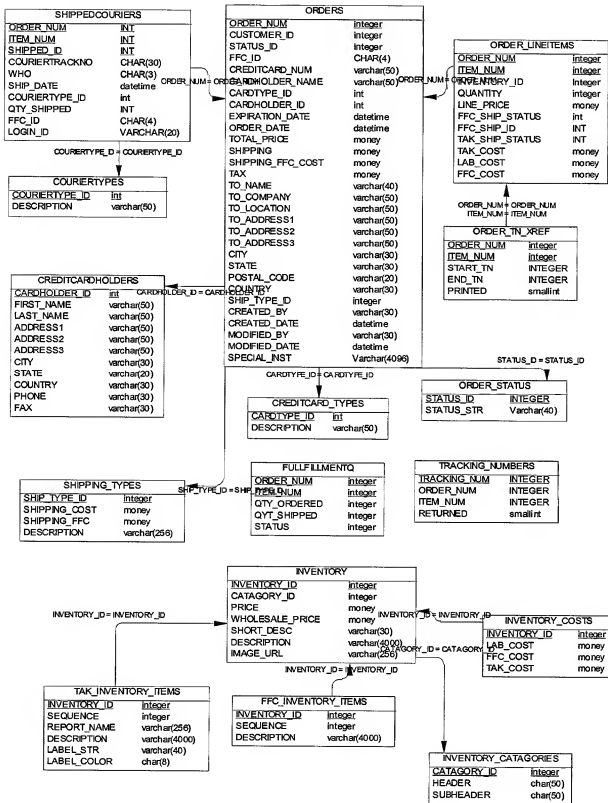


Figure 5C

UNITS	
UNIT_ID	int
CUSTOMER_ID	int
LAB_ID	char(4)
LAB_CNO	varchar(20)
LAB_UNIT_ID	varchar(20)
PQM_ID	int
ROOT_ID	int
CUST_UNIT_ID	varchar(30)
CUST_UNIT_DESC	varchar(50)
MAKE	varchar(50)
MODEL	varchar(50)
MODEL_YEAR	varchar(4)
FUEL_TYPE_ID	int
SERIAL_NUMBER	varchar(40)
METER_TYPE_ID	int
CREATED_DATE	datetime
CREATED_BY	varchar(30)
LAST_MODIFIED	datetime
MODIFIED_BY	varchar(30)
USER_DEF1	varchar(40)
USER_DEF2	varchar(40)
INACTIVE	char(1)
COMMENTS	varchar(4000)

UNIT_ID = UNIT_ID

COMPONENTS	
UNIT_ID	int
COMPONENT_ID	int
LAB_COMP_ID	char(8)
COMPONENT_TYPE	varchar(5)
COMPONENT_DESC	varchar(50)
PACKAGE_ID	int
MAKE	varchar(50)
MODEL	varchar(50)
FLUID_MANUF	varchar(20)
FLUID_BRAND	varchar(50)
FLUID_GRADE	varchar(30)
FILTER_TYPE	int
SUMP_CAPACITY	int
SUMP_UNITS	int
SERIAL_NUMBER	varchar(40)
SAMPLE_INTERVAL	int
LAST_SAMPLE_ID	int
LAST_CONDITION	int
CREATED_DATE	datetime
CREATED_BY	varchar(30)
LAST_MODIFIED	datetime
MODIFIED_BY	varchar(30)
USER_DEF1	varchar(40)
USER_DEF2	varchar(40)
NOTES	varchar(4000)

TEST_CODES	
TestCode	varchar(10)
DESCRIPTION	varchar(50)
ASTMnum	varchar(10)
Label	varchar(10)
Unit	varchar(5)
Spanish_Desc	varchar(50)
SLabel	varchar(10)

REC_CODES	
REC_CODE	varchar(4)
RECOMMENDATION	varchar(255)
SPANISH	varchar(255)

COMPONENT_NAMES	
COMPONENT_TYPE	varchar(5)
COMPONENT_NAME	varchar(40)
SPANISH_NAME	varchar(40)

MAKE_MODELS	
MAKE	varchar(50)
MODEL	varchar(50)

FUEL_TYPES	
FUEL_TYPE_ID	int
ENGLISH_FT	varchar(30)
SPANISH_FT	varchar(30)

FILTER_TYPES	
FILTER_TYPE	integer
FILTER_TYPE_DESC	VARCHAR(50)
SPANISH_FT	VARCHAR(50)

FLUIDS	
FLUID_MANUF	varchar(20)
FLUID_BRAND	varchar(50)

FLUID_GRADES	
FLUID_GRADE	varchar(30)

METER_TYPES	
METER_TYPE_ID	integer
METER_TYPE	varchar(20)
SPANISH_MT	varchar(20)

CONDITIONS	
CONDITION	int
ENGLISH_CONDITION	varchar(30)
SPANISH_CONDITION	varchar(30)
CSS_CHOICE	varchar(10)

Figure 5D